

## OIB - HU-25C Guardian #524 09/12/16 Science Report

**Aircraft:**

[HU-25A Guardian #524](#) ([See full schedule](#))

**Date:**

Monday, September 12, 2016

**Mission:**

OIB

**Mission Location:**

Kangerlussuaq, Greenland

**Mission Summary:**

Mission: Falcon Mop-up 1 (priority: high)

This mission combines portions of the 2016 IceSat-2 Central and Umanaq B missions which could not be accommodated in the Falcon versions of those missions.

For the first time since we arrived in Greenland, we awoke this morning to clear skies not only over Kangerlussuaq, but also over the entire west coast of Greenland from Cape Farewell in the south to near Thule in the northwest. The central and eastern parts of Greenland were still covered in clouds associated with the very persistent storm system in the Greenland Sea. Naturally we chose to concentrate on the west coast with this mission. This particular mission was also advantageous in that, being about a half-hour shorter than most of our flights, allowed us to conduct a high-altitude ramp pass over Kangerlussuaq. This is something we have been unable to do successfully so far in this campaign because of poor local weather.

All instruments performed well.

We conducted a ramp pass at 18,000'.

Data volumes:

CAMBOT: 16 Gb images

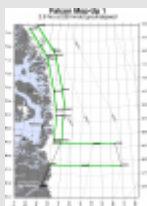
Narrow Swath ATM: 18 Gb

FLIR: 6.5 Gb

total data collection time: 3.0 hrs

**Images:**

### Map of Falcon - Mop-up 1



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### Jakobshavn Fjord



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### Sermeq Kujadtleq and Sermeq Avannerleq



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## Ingnerit Glacier



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## Rink Glacier



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### Submitted by:

John Sonntag on 10/01/16

### Related Flight Report:

## HU-25A Guardian #524 09/12/16

### Flight Number:

OIB 2016 on HU-25 #30

### Payload Configuration:

ATM

### Nav Data Collected:

No

### Total Flight Time:

3.3 hours

### Submitted by:

Richard Yasky on 09/30/16

### Flight Segments:

<b>From:</b>	BGSF	<b>To:</b>	BGSF
<b>Start:</b>	09/12/16 10:21 Z	<b>Finish:</b>	09/12/16 13:38 Z
<b>Flight Time:</b>	3.3 hours		
<b>Log Number:</b>	<a href="#">16F003</a>	<b>PI:</b>	Nathan Kurtz
<b>Funding Source:</b>	Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Flew Falcon (Pre planned) Mop-Up 1 mission over nearly entirely clear skies. Low stratus clouds remained to the east of the transects and the coast parallel lines were clear below. Completed a ramp pass at 18,000 feet before descending for landing.		

### Flight Hour Summary:

	<b>16F003</b>
<b>Flight Hours Approved in SOFRS</b>	121.25
<b>Total Used</b>	126.9

**Total Remaining****-5.65****16F003 Flight Reports**

<b>Date</b>	<b>Flt #</b>	<b>Purpose of Flight</b>	<b>Duration</b>	<b>Running Total</b>	<b>Hours Remaining</b>
<a href="#">06/29/16</a>	OIB 2016 on HU25A ICF	Science	2	2	119.25
<a href="#">07/11/16</a>	OIB 2016 on HU25A #1	Ferry	2.6	4.6	116.65
<a href="#">07/11/16</a>	OIB 2016 on HU25A #2	Ferry	2.5	7.1	114.15
<a href="#">07/11/16 - 07/12/16</a>	OIB 2016 on HU25A #3	Ferry	2.2	9.3	111.95
<a href="#">07/12/16 - 07/13/16</a>	OIB 2016 on HU25A #4	Ferry	2.6	11.9	109.35
<a href="#">07/13/16</a>	OIB 2016 on HU25A #5	Science	3.4	15.3	105.95
<a href="#">07/14/16</a>	OIB 2016 on HU25A #6	Science	3.5	18.8	102.45
<a href="#">07/15/16</a>	OIB 2016 on HU25A #7	Science	3.7	22.5	98.75
<a href="#">07/19/16 - 07/20/16</a>	OIB 2016 on HU25A #8	Science	3.6	26.1	95.15
<a href="#">07/20/16</a>	OIB 2016 on HU25A #9	Science	3.4	29.5	91.75
<a href="#">07/21/16</a>	OIB 2016 on HU25A #10	Science	3.6	33.1	88.15
<a href="#">07/22/16</a>	OIB 2016 on HU25A #11	Ferry	3.9	37	84.25
<a href="#">07/22/16</a>	OIB 2016 on HU25A #12	Ferry	3.2	40.2	81.05
<a href="#">07/22/16</a>	OIB 2016 on HU25A #13	Ferry	2.1	42.3	78.95
<a href="#">08/23/16</a>	OIB 2016 on HU-25 #14	Science	2.3	44.6	76.65
<a href="#">08/25/16</a>	OIB 2016 on HU-25 #15	Ferry	3.2	47.8	73.45
<a href="#">08/25/16</a>	OIB 2016 on HU-25 #16	Ferry	2.2	50	71.25
<a href="#">08/27/16</a>	OIB 2016 on HU-25 #17	Science	3.7	53.7	67.55
<a href="#">08/29/16</a>	OIB 2016 on HU-25 #18	Science	3.8	57.5	63.75
<a href="#">08/29/16</a>	OIB 2016 on HU-25 #19	Science	3.5	61	60.25
<a href="#">09/01/16</a>	OIB 2016 on HU-25 #20	Science	3.4	64.4	56.85
<a href="#">09/02/16</a>	OIB 2016 on HU-25 #21	Science	3.8	68.2	53.05
<a href="#">09/02/16</a>	OIB 2016 on HU-25 #22	Science	3.8	72	49.25
<a href="#">09/05/16</a>	OIB 2016 on HU-25 #23	Science	0.6	72.6	48.65
<a href="#">09/06/16</a>	OIB 2016 on HU-25 #24	Science	3.5	76.1	45.15
<a href="#">09/09/16</a>	OIB 2016 on HU-25 #25	Science	3.5	79.6	41.65

<a href="#">09/09/16</a>	OIB 2016 on HU-25 #26	Science	3.5	83.1	38.15
<a href="#">09/10/16</a>	OIB 2016 on HU-25 #27	Science	3	86.1	35.15
<a href="#">09/11/16</a>	OIB 2016 on HU-25 #28	Science	3.9	90	31.25
<a href="#">09/11/16</a>	OIB 2016 on HU-25 #29	Science	3.7	93.7	27.55
<a href="#">09/12/16</a>	OIB 2016 on HU-25 #30	Science	3.3	97	24.25
<a href="#">09/12/16</a>	OIB 2016 on HU-25 #31	Science	2.7	99.7	21.55
<a href="#">09/13/16</a>	OIB 2016 on HU-25 #32	Science	4	103.7	17.55
<a href="#">09/13/16</a>	OIB 2016 on HU-25 #33	Science	2.9	106.6	14.65
<a href="#">09/15/16</a>	OIB 2016 on HU-25 #34	Science	3.7	110.3	10.95
<a href="#">09/16/16</a>	OIB 2016 on HU-25 #35	Ferry	2.4	112.7	8.55
<a href="#">09/16/16</a>	OIB 2016 on HU-25 #35	Ferry	1.7	114.4	6.85
<a href="#">09/16/16</a>	OIB 2016 on HU-25 #35	Ferry	1.7	116.1	5.15
<a href="#">09/17/16</a>	OIB 2016 on HU-25 #38	Ferry	2.8	118.9	2.35
<a href="#">09/17/16</a>	OIB 2016 on HU-25 #38	Ferry	2.9	121.8	-0.55
<a href="#">09/19/16</a>	OIB 2016 on HU-25 #40	Ferry	2.5	124.3	-3.05
<a href="#">09/19/16</a>	OIB 2016 on HU-25 #40	Ferry	2.6	126.9	-5.65

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

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